

# FOLIO

13 DECEMBER 1990

## Strathcona candidates all say University must be adequately funded

The candidates for the Strathcona byelection spelled out their platforms on postsecondary education at a sometimes raucous forum sponsored by the Graduate Students' Association.

Liberal candidate Nadene Thomas told the 5 December forum, "If this University was a municipality, all the municipalities would be up in arms. You are being treated shabbily—and it's time all the university communities got together and stood up and said 'we've had enough. Deal with us on a fair basis.'"

One of the purposes of a university is to diversify the economy of a province or a nation, she said. "If we considered the University as part of that process, we would do something about funding the University properly," she said to applause.

Progressive Conservative candidate Eric Young defended the provincial government's support for the University. "This government has made a commitment to this University and it must provide the necessary funding to ensure the quality of this investment."

Young applauded the University's efforts to diversify its funding sources, by soliciting private donations and estate donations. He said it was time to think creatively and explore all funding avenues open to the University.

"To resolve the issue of maintaining the quality of education isn't just a matter of saying we're going to throw more money at the problem. There's no doubt that we have to look at the revenue going into the University and the allocation of that revenue within the University."

### "WE WILL WORK TO MAINTAIN AFFORDABLE FEES AND QUALITY INSTRUCTION," THE ENVIRONMENTAL CANDIDATE SAID

Alberta Greens candidate Elizabeth Paschen said their party stands behind the staff and students of the University who want to maintain the diversity of the institution in the face of "dreadful budget cuts."

"We will work to maintain affordable fees and quality instruction," the environmental candidate said, adding that the Environmental Research and Studies Centre on campus has her party's support.

"I think we have to be vigilant and very careful to express our feelings about university funding to ensure that these cuts are stopped."

Social Credit candidate Robert Alford said, "If we could eliminate or reduce the debt there would actually be money available for institutions such as the University. But until we do that, how can we spend money that we don't have?"

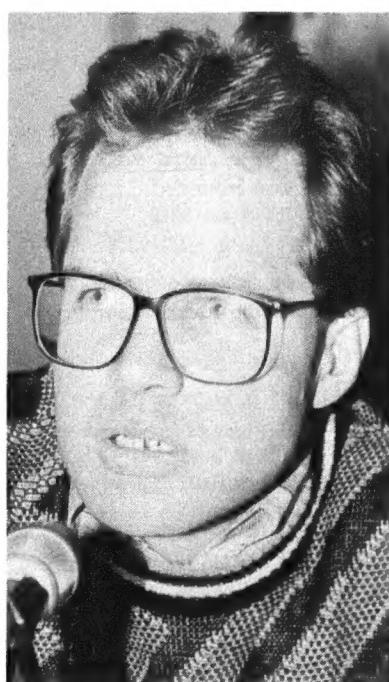
New Democrat candidate Barrie Chivers said, "In real terms the expenditures on students in the university setting in the last decade has decreased by 20 percent. There's more of the same in the future. The Minister of Advanced Education has said university education is a priority for this government. Well, if that's a priority, I'd hate to see what's not a priority for this government."

"The question is where does the funding come from?"

The friend and long-time law partner of former Strathcona MLA Gordon Wright, who died recently of cancer, said there would be adequate funding for postsecondary education in the province if the government more wisely allocated existing resources.



Alberta Greens candidate Elizabeth Paschen



Progressive Conservative candidate Eric Young



Myer and Barbara Horowitz pose before the portrait of the former President that was unveiled 29 November. As a tribute to Dr Horowitz, the University's Board of Governors commissioned the portrait by Canadian portrait artist Christian Nicholson. It hangs near the entrance to the Myer Horowitz Theatre, Students' Union Building.

## INSIDE

- Human Rights Officers appointed
- The University's revised Mission Statement
- Syncrude, University hit it off
- Essay assignment heightens awareness of barriers to women in engineering

# Board of Governors meets off campus

Taking a page from the University Senate's book, the Board of Governors has decided to have more interaction with the wider community by holding some of its meetings off campus.

Each year the Senate convenes the first of its quarterly meetings in an Alberta town or city, the exception being the 1987 meeting that was held in Yellowknife.

The Board of Governors meets monthly during the term. It held its 7 December meeting at the Westin Hotel and plans to hold its 1 February meeting in Wetaskiwin.

"We want to show people that the University is not an isolated entity. This will be a good experiment," Board Chair Stan Milner said as the Governors concluded the business portion of last week's meeting and moved to join Mayor Jan Reimer, Alderman Lillian Staroszik, and local business people at a sponsored luncheon. Ed Tyrchniewicz, Dean of the Faculty of Agriculture and Forestry, was the guest speaker.



The University flag was lowered to half-mast last Thursday.

# Human rights officers appointed

Two human rights officers have been chosen to serve in the recently created Office of Human Rights. They are Anna Pellatt and Fran Trehearne.

Trehearne has been the Executive Assistant to the Dean, Faculty of Arts, at the University of Alberta since 1984. He was Associate Director in the Engineering Placement Office from 1981 to 1984 and, from 1976 to 1981, a student advisor with the Office of the Dean of Students.

Trehearne, who earned his BEd with distinction from this University, was a teacher, counsellor and vice-principal in the County of Red Deer from 1968 to 1975.

Pellatt, who earned a BA Honours Anthropology degree from McGill University in 1977 and an LLB from Osgoode Hall Law School in 1980, has been a Legislative/Policy Consultant since May 1987.

From July 1985 to May 1987, she was a Legislative Policy Advisor with the Legislative Planning Branch of Alberta Social Services. Pellatt has also worked as a policy analyst for both the Ontario Indian Social Services Council, Chiefs of Ontario, and the Union of Ontario Indians.

# People reflect on anniversary of horrible event in Montreal

People on campus—some quietly weeping, others solemnly reflecting on what happened a year ago in Montreal—gathered last Thursday to remember the 14 engineering students who were killed 6 December 1989 at Ecole Polytechnique.

The commemorative service, cosponsored by the Students' Union, St. Stephen's College, Women's Studies Program, the Women's Program and Resource Centre and all those who expressed concern that such a service take place, included a moment of silence for those who died.

Randi Warne (St. Stephen's College) urged people who gathered in the entrance to Rutherford South to first mourn and then work for change.

"We need together—women

and men—to stand in solidarity to build a human community in which the event we commemorate today could never happen," she said. "Then in the knowledge that we cannot change the past, but that we must change the future, let us work together for change. Remember the women."

Songs of healing were presented by Chaplain Daniel Bogert-O'Brien and a poem by Nancy Mattson titled "Fourteen Women" was recited by Peggy Graham. Following the service, readings and conversation took place in the Arts Building.

Although not on the program, engineering student Lloyd Kortbeek, an executive member of the Engineering Students' Society, laid a wreath on behalf of all engineering students.

Meanwhile, another com-

memorative gathering on violence against women was held at Canada Place. At that forum, sponsored by the Alberta Advisory Council on Women's Issues, President Paul Davenport said a peaceful and noble community of scholars was assaulted and traumatized by a madman who targeted innocent women students.

"The mothers and fathers of those wonderful daughters—daughters who were pioneers, entering a field heretofore dominated by men—will never again have the same hope for the future. None of us will be the same again."

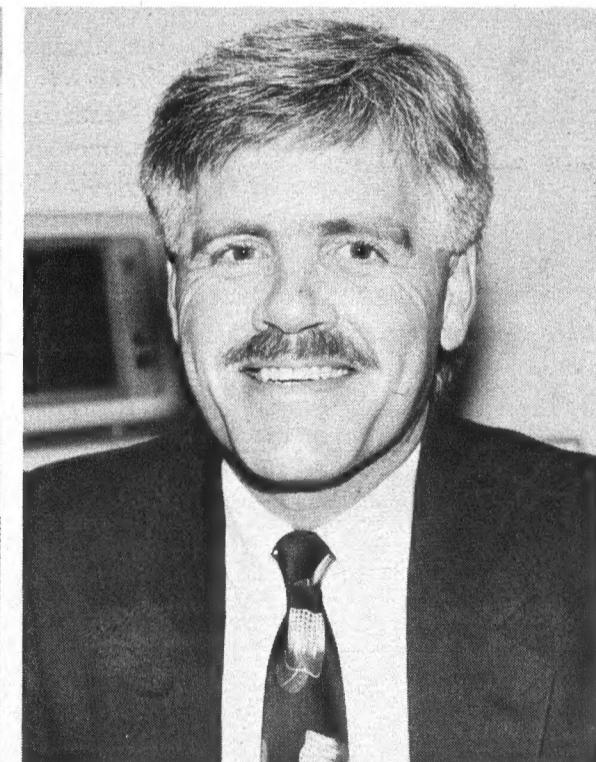
The University flag on the Administration Building was lowered to half-mast and remained in that position until 10 December.

discrimination.

One of the officers' key roles will be to develop and carry out an educational program about university-related human rights issues.



Anna Pellatt



Fran Trehearne



Debbie Preston, secretary, Office of Human Rights

## CORRECTION

In the 6 December issue of *Folio*, it was reported that the University's 1990-91 operating budget is \$2.9 million ("Budget blues unrelenting", page 1). That figure is actually the operating budget deficit for 1990-91.

*Folio* apologizes for the error.

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University of Alberta

# Farouq Ali recognized by peers

**S**M Farouq Ali (Mining, Metallurgical and Petroleum Engineering) will serve as one of the Society of Petroleum Engineers' (SPE) Distinguished Lecturers for 1990-91.

The SPE is a professional organization whose members—52,000 in 41 countries—are engaged in energy resources development and production. The Society's headquarters are in Richardson, Texas.

Dr Farouq Ali joined the University of Alberta in 1979 after graduating from and teaching at Pennsylvania State University. (In 1970, that institution awarded him the Wilson Outstanding Teacher Award.) His principal interests are enhanced oil recovery and reservoir simulation.

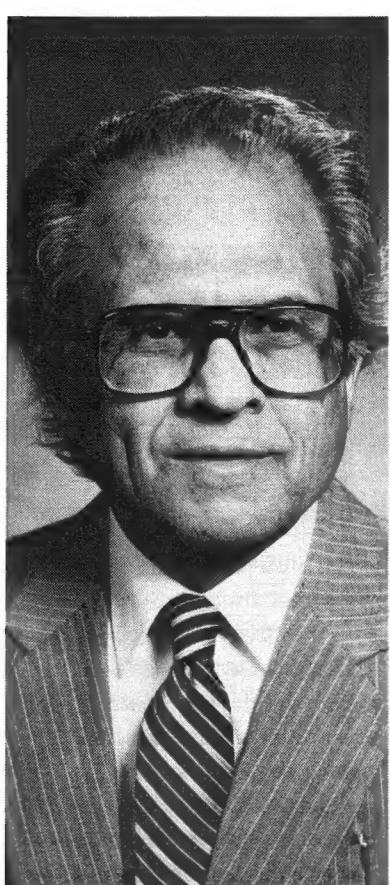
Apart from teaching petroleum engineering courses, Dr Farouq Ali is adviser to 12 graduate students in the Department of Mining, Metallurgical and Petroleum Engineering.

He has authored more than 340 technical papers and taught numerous short courses to the petroleum industry.

Currently, he serves on the Minister's Advisory Committee on energy policies of the federal government. He also serves as a consultant in Canada, the United States, the Middle East and other countries, as well as to the United Nations Development Program.

Dr Farouq Ali holds research grants from NSERC, AOSTRA, and Energy, Mines and Resources, Canada.

Lecturers are selected each year to address technical meetings held by the various sections of SPE. Dr Farouq Ali will discuss enhanced oil recovery at meetings in North America and abroad.



SM Farouq Ali

# University of Alberta Mission Statement

## TO: MEMBERS OF THE UNIVERSITY OF ALBERTA COMMUNITY:

A draft of the University of Alberta Mission Statement was discussed at General Faculties Council's November meeting. Many thoughtful and useful suggestions were made there, and in subsequent letters to Drs Davenport, Meekison, Kieren, and me.

Below is a second draft of the Statement, which I hope captures some of the essence of this comment. I invite all members of the University community to consider this draft, and forward further ideas to me before the end of December. The Mission Statement will come before General Faculties Council again on 28 January 1991.

**Lois M Stanford, Vice-President  
(Student and Academic Services)**

## University of Alberta Mission Statement

### **QUAECUMQUE VERA "WHATSOEVER THINGS ARE TRUE"**

**The University of Alberta is committed to the pursuit of truth and the advancement of learning as well as to the dissemination of knowledge.**

The statement which follows enunciates the common beliefs and vision of the members of the University of Alberta about the nature of our collegial community and its collective mission.

We believe that the goal of the University of Alberta is to be an outstanding university: to serve our students, our Province, our country, and the international community by excelling at research and teaching across a wide spectrum of selected areas. As a community we strive for such academic distinction through unceasing pursuit of excellence in our academic endeavours, through establishing our priorities by reference to our vision of the University, and through ensuring opportunities for growth and achievement to our faculty, students, and staff. We thus seek to expand the horizons of learning through the discovery, creation, evaluation, transmission, and preservation of knowledge.

**At the heart of our mission is a belief in the important interactions between university research and teaching, between undergraduate and graduate studies, and between internationally recognized academic excellence and service to the community.**

The University takes a long view of its mission in research and teaching. It educates students in the broadest possible sense so that each may become, to the highest level of his or her ability, a full participant in the intellectual, creative, and social fabric of the community. Fundamental to such education, and impossible without it, is the research to which faculty devote their intellectual lives. The mission of research, of the discovery of knowledge, is central to a university. Without it, we are not a university. Without it, our students' learning does not constitute a university education. Research, teaching, and learning are inextricably linked in the mission of the University.

Our mission also is to provide accessibility, to the extent of our ability, to both undergraduate and graduate study in Alberta, and furthermore to ensure that each category of student benefits from the presence of the other in the scholarly community. We see the graduate and undergraduate levels of education as complementary: both groups benefit from graduate students acting as teachers, laboratory supervisors, and role models. Undergraduates are exposed to stimulating research ideas by their graduate colleagues. Graduate students receive training and practice in undergraduate teaching; many of them will carry this experience to academic positions in other colleges and universities.

The mission of the University is furthermore to serve the local community, the Province, and the country through such activities as promoting culture, stimulating technology transfer, playing a leadership role in health care and primary and secondary education, and strengthening the economy through basic and applied research and the provision of highly trained personnel. In promoting the search for truth in an environment free of intolerance and bigotry, the University aspires to serve as an example for all of society. At the foundation of this service is academic excellence: from literary criticism to advances in medical science, our contribution to the community is based on outstanding teaching and research, and in joy in learning and knowledge for its own sake.

**Essential to our mission is making choices which will enhance the health and strength of our University. As a collegial community, we believe that such decisions are best made on these grounds: academic excellence, academic centrality, quality of participants, and prospect of service to the greater community.**

The criterion of academic excellence directs us to enhance those areas of the University which have achieved outstanding reputation in research, graduate studies, and/or undergraduate education. At the same time, we are responsible for recognizing strength in new areas of study, and for ensuring that important new disciplines and innovative approaches to learning are encouraged.

Certain areas of study are essential to any broadly based university because of their intrinsic importance to the educated life and their foundational role for other disciplines. Many examples of such academic centrality are to be found in the liberal arts and sciences. It is essential to the long-term strength of all our programs that these central disciplines be encouraged and well supported.

Quality of participants suggests that we focus on those areas of the University with the ability to attract outstanding academic staff who will enhance the reputation of the University. A similar priority is given to those programs which attract outstanding undergraduate and graduate students who can strengthen teaching and research while they are students, and bring credit to the University during their working lives.

There are many disciplines for which the University of Alberta plays a central role in meeting the employment and professional needs of the Province, and others in which the University's research or clinical work is essential to achieving important local, provincial, national, or international objectives. The University takes such service to our communities into account in decisions on resource allocation. In evaluating provincial needs, the University works with other postsecondary institutions to ensure that provincial resources committed to the overall postsecondary system are used in an efficient manner.

**Responsibility to the members of our own collegial community—students, staff and faculty—is a critical part of our mission.**

The University's most important resource is its people. We expect our faculty to improve throughout their careers in their ability to contribute to the University and society through their knowledge, teaching and scholarship. Accordingly, part of our mission is to provide our faculty with the opportunities for self-improvement that are necessary to do this. In the same spirit we seek to provide our students with the highest quality of education, to allow them to achieve their full potential in learning and in life, and our staff with a supportive work environment and challenging career opportunities.

In the admission and evaluation of students, and in the hiring and promotion of staff and faculty, the University is committed to equity, without discrimination on the basis of such characteristics as gender or race. An essential part of our mission is the provision of an academic environment in which all of our students and faculty are encouraged and supported in the advancement of learning, and in which intolerance, sexism, and bigotry have no place.

**To these goals we give our support as a university community.**

# Syncrude, University team up to offer courses in Fort McMurray



Sirish Shah (Chemical Engineering) (right) explains a problem to Syncrude's Mark Jamieson.

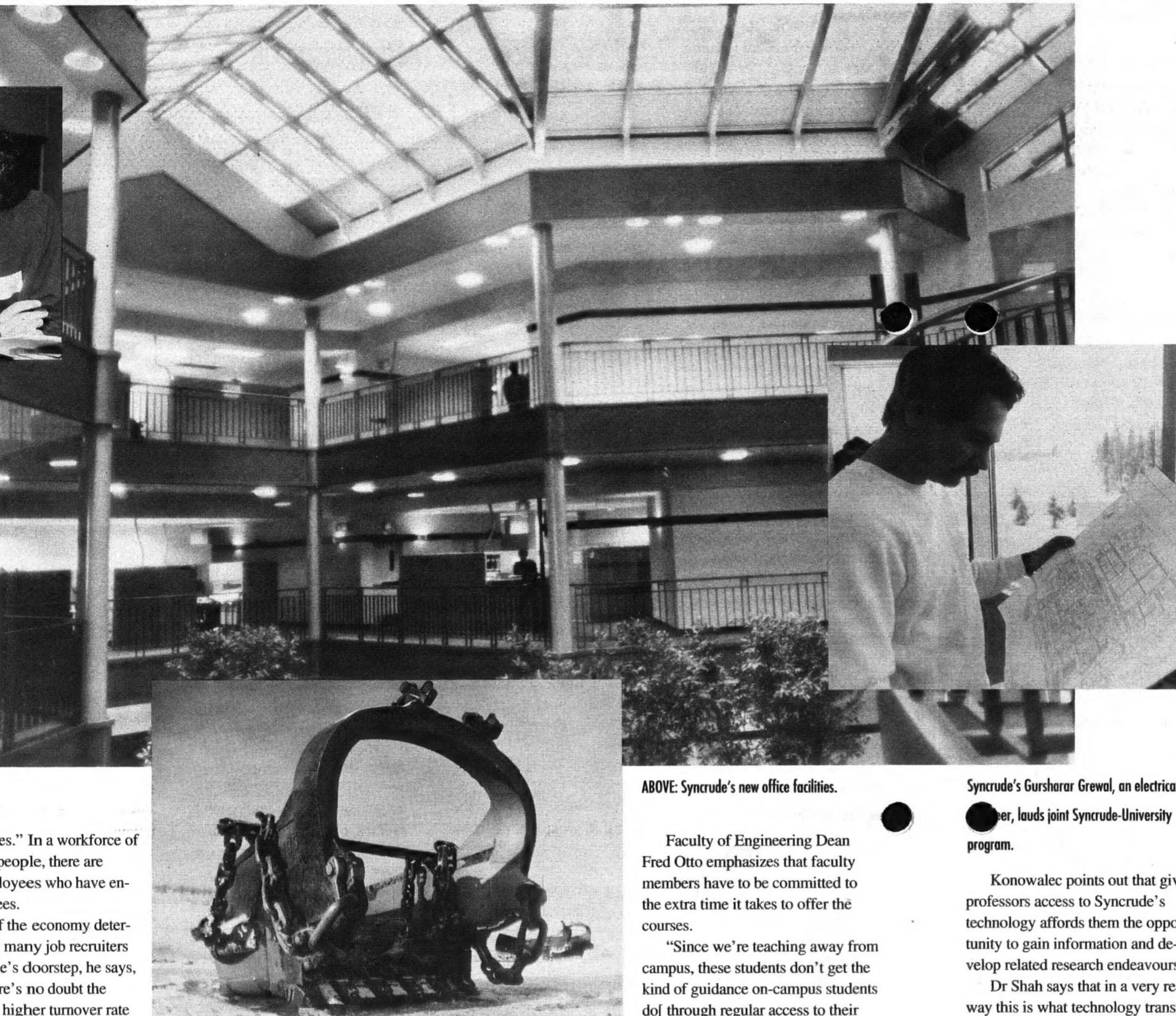
The graduate courses offered by the Faculty of Engineering for Syncrude employees in Fort McMurray is "a step in the right direction for the University and industry. I'd like to see more of this in the future," says course participant and Syncrude Canada Limited employee Ahmed Hanafi.

The 36-year-old systems analyst, who has an undergraduate engineering degree and who's worked for the company for seven years, sees the recently offered Chemical Engineering 696 graduate course, Special Topics in Process Control, as a way of immersing himself in the engineering field once again.

One of approximately 20 enrolled [about half are taking it for credit] in the official U of A course, Hanafi says offering the courses makes sense from a company standpoint. "After so many years with the company, people decide they've got to leave to upgrade their skills," he says, adding that happy employees are inevitably going to stay with the company.

Syncrude Business Manager (Upgrading) Steve Konowalec says the courses, which began in the fall of 1989 and have included civil/mechanical, electrical and chemical engineering courses, were piloted for several reasons. "We want to continually upgrade our workforce's skills and one way of doing that is by providing relevant training."

Acknowledging that Fort McMurray is a long way from the nearest university, Konowalec says, "Some of our employees are keen on getting advanced degrees and they will leave to do that, so we know we'll reduce our turnover by offering



The scale of Syncrude's operations can be overwhelming.

ing these courses." In a workforce of roughly 4,650 people, there are about 465 employees who have engineering degrees.

The state of the economy determines just how many job recruiters are on Syncrude's doorstep, he says, adding that there's no doubt the company has a higher turnover rate than firms in the south.

He points out that the complexity of the world's largest synthetic crude oil production facility is increasing every year. The more that happens and the more new technology is introduced, he explains, the more crucial it is for Syncrude to have highly trained process control engineers. "There'll always be new people coming in and there'll always be people wanting to work towards their MEng."

That expertise has some real economic benefits too. The more qualified the workforce is, the more productive the operation, Konowalec points out.

Syncrude and University officials are hoping the honeymoon will never end. Konowalec says a group will be sitting down to evaluate the courses and to determine where the University-Syncrude relationship goes next. That assessment is expected to be completed by the first quarter 1991.

The company wants particularly to evaluate the administrative aspects of the courses. Trying to coordinate the increasing number of courses is a growing challenge for the company, so they'll be considering future staffing requirements.

And although no discussions have been held yet with officials from Keyano College in Fort McMurray, one of the possible options they'll examine is whether the courses might be offered to the broader community. They'll also be looking at possible involvement on the part of the community college.

It was Syncrude's Afzal Khan who first approached the University with the idea to offer courses to allow employees to work towards an MEng, says Dave Murray (Civil Engineering). And although the or-

ganization is not running flawlessly yet, they're working towards that goal, says Dr Murray.

He says they have many things yet to learn and administrative problems to tackle. "It's really experimental on our part at this point. It's an attempt to reach out to communities and provide them with University courses."

Syncrude's commitment is considerable. Instructors are paid on an hourly basis by the company; course-related space and equipment is provided; instructors are flown in on the corporate aircraft; and employees can take the courses on company time.

Sirish Shah (Chemical Engineering), who co-teaches the 696 course with Grant Fisher (Chemical Engineering), says the University also has to make considerable commitments. Planning for a whole day of teaching is a large task. Course content must be developed in consultation with the students, so the special topics will meet the needs of the company and its employees. The University also incurs some administrative costs.

**KONOWALEC POINTS OUT THAT GIVING PROFESSORS ACCESS TO SYNCRUDÉ'S TECHNOLOGY AFFORDS THEM THE OPPORTUNITY TO GAIN INFORMATION AND DEVELOP RELATED RESEARCH ENDEAVOURS.**

## DEAN OTTO SAYS IT'S BECOMING INCREASINGLY IMPORTANT FOR THE FACULTY TO MEET THE NEEDS OF THE COMMUNITY AND INDUSTRY.

Dr Shah receives a different kind of feedback from the Syncrude students than from on-campus students. "Campus students haven't had as much industrial experience as these students have. They [Syncrude students] ask me questions you wouldn't normally hear from on-campus students, and these questions make me aware of the kind of challenges they're facing."

Concludes Syncrude electrical engineer Brent MacDonald: "Everyone benefits from this relationship."

# Students challenged to confront barriers to women in engineering

A recent assignment in the Sociology 366 class, People in Industry—a compulsory course in a number of engineering departments—provided engineering students in the class an opportunity to reflect on their own values and behaviours, says the instructor.

Organized into groups of three and four, students were instructed to write a 1,000-word essay on barriers to women in engineering.

"The purpose of the assignment was to have engineering students take a very close look at the real barriers that exist to women entering the Faculty of Engineering and entering the profession and staying there as practising, professional engineers," says Graham Lowe (Sociology).

"The assignment was to increase their awareness of the problem and increase their knowledge of it, so they would be in a position upon entering the workworld to become part of the solution," said Dr Lowe.

"I set it up as a team project, given the nature of the issue, because I thought it would be valuable for them to discuss among themselves the nature of the problem. It's one thing if individual students become aware of the problem, but it's another thing if as groups they become aware and start talking among themselves." Dr Lowe said the project could result in the forming of a collective will to do something about the problem.

The students took the whole process seriously—an encouraging sign, said Dr Lowe. Many of the approximately 40 groups in the class of 165 students took a more sociological approach to the assignment, focusing on not just the profession per se, but on the issues of gender role socialization in society.

One student reviewed a selection of the essays and concluded that very few of them centred on what was going on in the Engineering Faculty. Jim Zaleschuk estimated that only 11 percent of the discussion in the essays focused on what was actually going on in the Faculty.

"This shows that it is a sensitive issue and obviously it was easier to start by looking at other institutions; it shows a lot more work needs to be done if we on campus are committed in trying to make traditionally male-dominated Faculties places that truly invite the enrollment and participation of young, talented women."

In one paper, cowriters Zaleschuk, Jeff Rudiak, Peter Hui

and Bruce Hogberg argued that the group culture in engineering "appears to deter women from engineering at the university level rather than at an earlier period in their lives."

"In the Faculty of Engineering, the existing fraternity culture that excludes women also attempts to eliminate criticism by avoiding specific charges and by summoning up those students who have already accepted the group boundaries to promote this ideology," the writers contended.

Another common theme running through the papers was that a lot of people do not know what engineers actually do. Many of the students argue that if society had a clearer picture of what engineering is all about, more women could see opportunities for themselves within the field.

Some mentioned the crucial importance of having female role models on faculty and in the profession. Others said it was becoming increasingly important for employers to accommodate employees who want to maintain a balance between work and family.

In classroom discussion,

some male students expressed reservations about affirmative action quotas in the profession for women, contending that these kinds of programs would systematically discriminate against men.

Dr Lowe pointed out that contained in a paper from the Canadian Council of Professional Engineers (CCPE) is a prediction of a dire shortage of engineers in the next five years.

"I generalized that argument to the labour force, pointing out that Canada is experiencing some demographic changes that are likely to lead to some pretty serious labour shortages in some areas by the mid-decade."

"So, where will employers turn to recruit qualified people? Well, the largest untapped pool of human capital in Canada is women. So, it's not going to be women taking jobs that would otherwise go to men, but it's going to be employers actively seeking qualified women in order to fill the job openings."

The Dean of the Faculty of Engineering and the CCPE have been sent a package of the completed papers. One of the class teams has asked for Dr Lowe's assistance in preparing a more detailed paper which the students want to present to a conference this summer in Fredericton, sponsored by the CCPE's Task Force on Women in Engineering.

So what did Dr Lowe learn from the exercise? "My sense is that if you look at where the students are at, they are very receptive to the idea of trying to do something about the problems."

Therefore, the problem may be in getting the institutions to change. It's not that the students are the holdouts. If anything, the students are advanced in their thinking on the issues."

## EYO tuning up

Festive music will dip and dart through Convocation Hall this Sunday afternoon as the two orchestras of the Edmonton Youth Orchestra present a joint concert.

Some 130 players ranging in age from 12 to 24 will perform Tchaikovsky's "Sleeping Beauty Suite," "Men of Goodwill" by Benjamin Britten, and other selections by Bach, Beethoven and Kabalevsky.

The concert, which starts at 3 pm, is sponsored by the *Edmonton Journal* as part of its Celebration of Christmas.

The orchestras have been invited to represent Canada at the Cultural Festival of the Universiade Games in Sheffield, England, in July 1991.

About 500 cans of food have been donated so far, Burgess says. Food may be dropped off at the Equipment Room in the Van Vliet Centre.

## Feed the Food Bank

Campus Recreation is pro protein.

Although the "Tin Minute Workout" (at which people substituted cans of food for hand weights and then donated the cans to the Edmonton Food Bank) has ended, additional donations of tinned food will be greatly appreciated by Campus Recreation.

"We need protein ... salmon, tuna, beans, milk, etc," says Art Burgess. Packaged food will also be accepted because Campus Recreation loses little time in forwarding donations to the Food Bank.

About 500 cans of food have been donated so far, Burgess says. Food may be dropped off at the Equipment Room in the Van Vliet Centre.

## LETTERS

### RELIGIOUS STUDIES AND THE UNIVERSITY

The Acting Chair of Religious Studies claims (*Folio*, 1 November 1990) that it was by a unanimous decision that the Departmental Council approved of the job description for the appointment of the future Chair. This claim needs to be qualified. I was not, in any way whatsoever, a participant in the deliberations which preceded that decision.

Religious Studies is perhaps the only department in the Arts Faculty where the permanent staff members are outnumbered by temporary sessional lecturers, who are full-time employees in their respective professions. Their academic qualifications are kept secret. They are all recruited to teach in only one of the three sections into which the Religious Studies program is divided. Though they are hired to teach 0.5 or at most 1.00 FCE, yet they are allowed to exercise one vote each, on all the issues facing the department. Consequently, while the administrative procedures are correct, the decisions arrived at may at times be intellectually and morally flawed. This is so especially when sycophancy or submission to semi-official edicts seem to prevail over concerns for the authentic values and ideals that are the *raison d'être* of the University.

The unfortunate prospect in relation to the forthcoming appointment is that a woman applicant, learned, with expert knowledge of a substantive, central Judeo-Christian theme, and resourceful and imaginative enough to develop a lateral program of gender studies, would run the risk of not being short-listed, in favour of another candidate, equipped merely with gender studies as a major qualification. Those well acquainted with the present state of Religious Studies may understand that the irony lies in the department apparently committing itself to prolonging the inadequate representation of the Christian tradition.

In such a context, subjective sophisms or merit-speak would remind one of Hans Christian Andersen's swindlers boasting of the magnificent cloth they were weaving for the Emperor.

D Prithipaul  
Professor, Religious Studies

# Experts agonize over fate of wood bison

**P**rofessor Emeritus Bill Fuller doesn't believe that tuberculosis and brucellosis in the wood bison in Wood Buffalo National Park will die out spontaneously.

The Senior Research Scholar with the Canadian Circumpolar Institute and member of the Park's Environmental Assessment and Review Process (EARP) Panel told a well attended CCI-sponsored forum 29 November, "The disease will be in the population maybe for decades."

"To maintain the disease, every infected animal only needs to infect on the average one new animal," said the zoologist, adding that the panel, which recommended that the diseased herds be exterminated, was primarily concerned with risk to the disease-free animals in the Mackenzie Bison Sanctuary.

He said other concerns included the risk of spreading disease to cattle, people and other wildlife. "Although the risks are small, they are not zero. You can accept the risk, the status quo," he said, noting that another option would be to try to contain the risk by fencing, establishing buffers and shooting animals found in the buffers.

"All those things are fallible. Fences break and fall down and they need constant surveillance.

"The third option is to eliminate the risk—and there are several ways that might be done. You might do it by testing and slaughtering reactors [infected animals]. You might do it by working out some kind of inoculation, but nobody has anything to inoculate or vaccinate with yet and agriculture people are not interested in spending money on that kind of research."

"So you look at these various alternatives and realize that none of them are likely to work; the only way it's likely to work is the way they do it with cattle herds: kill the whole herd and start over with new ones."

Val Geist, a professor in the Faculty of Environmental Design at the University of Calgary, said he opposes the kill because the bison are not a great threat to agriculture. They pose some threat to agriculture, he said, but the chances are not very great that the diseases will be transmitted from the bison to cattle.

He said if the northern part of the province is going to be used for game ranching, then, of course, the bison in the Park would be dangerous. He added that there exists excellent data to confirm the virtual certainty that the fences do not contain animals. "Escape is a guarantee."

Dr Geist said the issue of possibly transferring the disease

to the Mackenzie Bison Sanctuary is, in part, valid. "But the point I'd like to make is that from a conservation perspective, the bison in that sanctuary are far less important, far less significant and far less valuable than those in Wood Buffalo National Park, mainly because we're dealing with a highly inbred group of bison in the Mackenzie Bison Sanctuary."

Questioning the validity of the methodology used to gather data on the incidence of the disease, Dr Geist said, "In short, it has to be done in a much better fashion before we can draw good, hard conclusions about the frequency of the disease in the bison."

Describing the historical taxonomy of bison in North America as a "comedy of errors", Dr Geist argued that "our whole system of bison conservation will have to be rethought in the future. There is no such thing, probably, as a wood bison." He added that the richest genetic pool of bison in North America is within the Park. To replace them with a highly inbred bison would not be acceptable from a conservation standpoint.

George Kurszewski, representing nine native communities in the area, pointed out that many native people still live off the land and "as soon as somebody says we need to come in and kill off your food supply, we get concerned."

Acknowledging that there may be a risk to cattle, Kurszewski also questioned the

validity of the statistics regarding the incidence of the disease in the bison. He rejected the option of killing all the bison and starting over.

"If this had taken place 30 to 40 years ago, we wouldn't have the Mackenzie Bison Sanctuary herd." There's no need to panic and no need to make the same mistakes that have been made in the past, Kurszewski said.

Canadian Nature Federation representative Teressa Aniskowicz said, "We don't necessarily oppose culls, but in this case the evidence doesn't justify the cull." She reiterated that within the bison is the largest and most valuable gene pool in the world, so it wouldn't be appropriate to eliminate them.

She asked how the presence of the disease is actually affecting the bison and pointed out that the numbers of bison in Yellowstone National Park have been continuously increasing despite the presence of brucellosis.

Dr Aniskowicz called for more resources in developing a vaccination and the establishment of a buffer zone. She added that it was poor management to allow cattle in the area and that regional planning for the area would be a step in the right direction.

Robert Hudson (Animal Science) pointed out that the matter of who decides what happens to the animals is as important as what is decided. He said if nothing is done, there's a good chance the disease will spread.

# Board approves guidelines for next year's budget

**T**he University's Operating Budget Principles, Policies and Procedures 1991-92 were discussed and subsequently approved in the confidential portion of the 7 December meeting of the Board of Governors.

As per usual at this time of year, details are sketchy because the size of government grants to the postsecondary education system won't be known for some weeks. President Paul Davenport has said on more than one occasion that the 1991-92 budget year will be more difficult than 1990-91, a year which will see the University run a deficit of nearly \$3 million. The University's Unallocated Investment Fund will have to be tapped to pay off the deficit and will thus be reduced to \$4 million. If a similar deficit is incurred next year, the UIF will be all but depleted.

It's incumbent upon the administration to look at every part of the University and see just how it fits into where the institution is going, commented Gerry Glassford, Acting Vice-President (Development and Community Affairs).

On 10 January, an open forum on the 1991-92 budget and the budget process will be held in Myer Horowitz Theatre, Students' Union Building. The two-hour forum will start at 9 am; President Davenport and the Vice-Presidents will be on hand to answer questions.

## STUDENT SERVICES FEE, MENTORING PROGRAM UNDER CONSIDERATION

The charging of a student services fee on the order of \$20 to \$35 per year is being considered, both Students' Union President Suresh Mustapha and Graduate Students' Association President Stephen Downes noted in their reports to the Board. How it would be collected and whether it would go to student services or into general revenues remains open to question.

Barbara Kozoriz, who reported on behalf of the Alumni Association, said thought is being given to establishing a student mentoring program independent of the University's Student Counselling Services. She said students would be able to talk directly with professional people about what is happening at the time in a particular field.

## NEUROSCIENCE AWARDED MSc, PhD PROGRAMS

The Board approved a proposal from the Faculty of Graduate Studies and Research for the establishment of MSc and PhD degree programs in the Division of Neuroscience.

This will be the first interdisciplinary program at the University of Alberta in which a PhD could be awarded to an individual who was not registered in a specific department.

No extra space is needed; application will be made to the Special Initiatives Fund and to other sources of funding.

## HANDS ACROSS THE BORDER

The quota in the BSc program in Occupational Therapy will increase by 10 subject to the conclusion of a funding agreement between the Governments of Alberta and Saskatchewan.

An interprovincial training agreement has been in effect since 1986; the increase stems from negotiations to renew this agreement.

The Occupational Therapy program discontinued its accelerated program route this year and raised the quota on the basic program from 40 to 64 places. Because of the workforce needs in Alberta, the Saskatchewan allocation of 10 students will be in addition to the existing quota of 64.

The agreement would be for five years beginning in 1991.

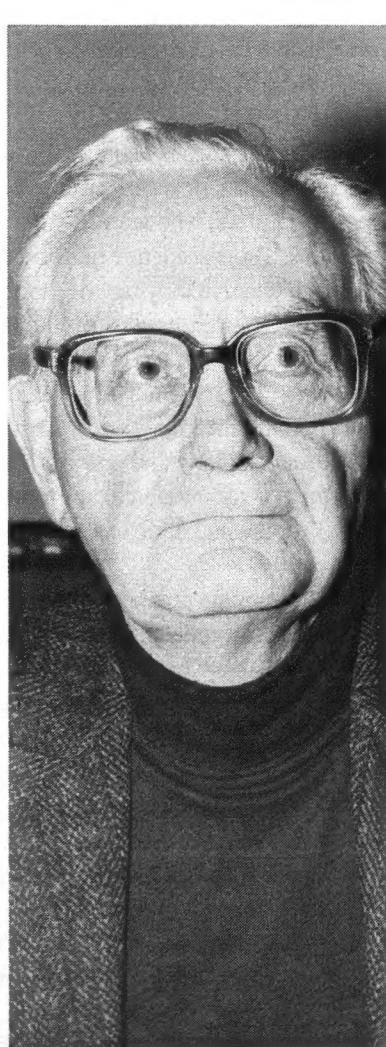
## MORE PLACES IN DENTISTRY FOR ABORIGINAL STUDENTS

The Board approved another quota increase, this one in the Faculty of Dentistry. One more place in the Dental Hygiene Diploma and DDS programs will be allocated to aboriginal applicants.

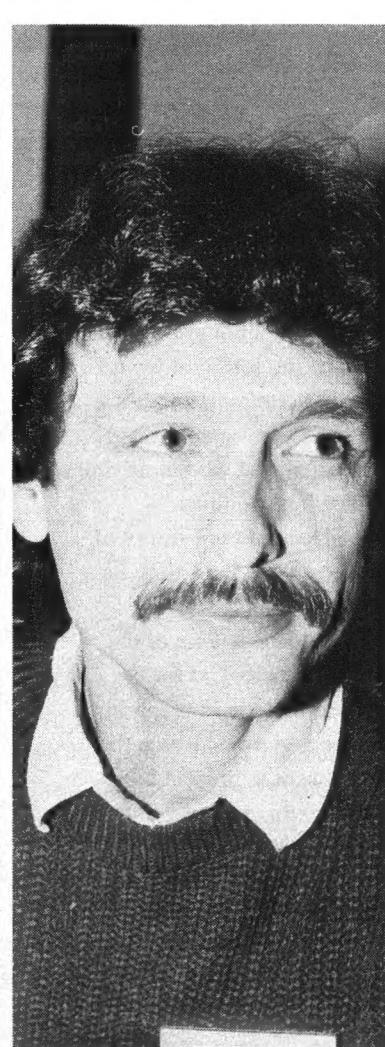
Similar arrangements, whereby applicants of aboriginal ancestry are considered outside the highly competitive regular quota, exist in the Faculties of Medicine, Nursing, and Pharmacy and Pharmaceutical Sciences.

## CAMPUS UNITED WAY GOAL BEYOND REACH

John Bertie (Chemistry), a General Faculties Council representative on the Board and a member of the United Way Campus Campaign Committee, said the University exceeded last year's United Way goal of \$150,000 by \$6,000. This year's goal is \$225,000; Dr Bertie estimated the University will conclude the campaign somewhere between \$190,000 and \$200,000. "It's a creditable contribution to United Way this year although I think we should be aiming higher," he said.



Zoologist Bill Fuller



George Kurszewski opposes the kill.

## EVENTS

### TALKS

#### CLOTHING AND TEXTILES

13 December, 1 pm

Osei-Ntiri Kwabena, "Development of Procedures to Measure the Static Discharges from a Clothed Person." 131 Home Economics Building.

#### CANADIAN INSTITUTE OF UKRAINIAN STUDIES

14 December, 7:30 pm

Yuri Lutsenko, Institute of Literature, Academy of Sciences, Kiev, "Early Ukrainian Literature." Heritage Lounge, Athabasca Hall.

#### ENTOMOLOGY AND ZOOLOGY

18 December, 3:30 pm

Yrjo Haila, Department of Zoology, University of Helsinki, Finland, "Scaling Population and Community Processes in the Southern Finnish Taiga."

#### SOCIETY OF EDMONTON DEMOGRAPHERS

18 December, 3:30 pm

Karol Krotki, "The Role of Demography in a Society: The Quebec Lessons for Alberta." 5-15 Tory Building.

#### HUMAN ECOLOGY: ISSUES IN THE CANADIAN NORTH

8 January, 3:30 pm

Milton Freeman, "Symbolic Significance of Food in Northern Canada." 346 Chemical-Mineral Engineering Building.

#### COMPUTING SCIENCE

9 January, 3:30 pm

Hang K Du, Department of Computer Science, University of Waterloo, "A Resolvent Method for the Implicitization, Inversion, and Intersection of Non-Planar, Parametric, Polynomial Curves." 619 General Services Building.

#### CONTEMPORARY CULTURAL ISSUES

10 January, 3:30 pm

*express*

ues Centre.

## ARTS

### EXHIBITIONS

#### FAB GALLERY

Until 21 December

"Staff Shows 1990—Part I"—painting and sculpture. Gallery hours: Sunday, 11 am to 5 pm; Monday and Saturday, closed; Tuesday, Wednesday and Friday, 10 am to 5 pm; Thursday, 10 am to 8 pm. 1-1 Fine Arts Building.

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## ACROSS CANADA

### SIMON FRASER TASK FORCE PROPOSES SWEEPING CHANGES

A report of the task force on the quality of service at Simon Fraser University calls on the university to devote more attention and resources to undergraduate teaching, scholarships and bursaries and support services for graduate students. The report also recommends that SFU put more emphasis on teaching quality and limit the use of sessional instructors.

### UNB TASK FORCE CALLS FOR MORE FEMALE FACULTY

The President's Task Force on the Status of Women has suggested that increasing the number of women faculty members at the University of New Brunswick should be the university's top priority for the coming decade. The report says there's an urgent need to hire more female faculty members, and it draws attention to a "striking imbalance" throughout the campus workforce.

### DALHOUSIE CONTRACT NEGOTIATIONS DRAG ON

Contract negotiations between the Board of Governors and the Dalhousie Staff Association have failed to be resolved. The two parties met 13 and 14 November to exchange contract proposals and a third meeting was scheduled for 5 December. The association

has been without a contract since 30 June and the two sides have met more than 20 times in an attempt to reach an agreement.

### QUEEN'S COMPLETES STUDY OF SECONDARY SCHOOLS

A group of Queen's University researchers has recently completed a comprehensive study of secondary schools in Ontario. The team spent six years surveying 60,000 students and 10,000 teachers. Since 1988, the team has examined 14 schools in detail. The scorecard approach the team used allows the schools to see how they stack up against the province's best schools.

The study found good principals were accessible and good extracurricular programs enhanced students' sense of well-being. The study says schools should provide special programming designed for students likely to drop out.

### MEMORIAL GETS SET FOR TIGHTER TIMES

Memorial University has decided to establish a committee which will recommend restraint measures that can be implemented in the coming year. The establishment of the committee follows on the heels of news from the provincial government that it may freeze funding to public institutions in the coming year.

## POSITIONS

*express*  
Cafe  
employment. The University encourages applications from aboriginal persons, disabled persons, members of visible minorities and women.

#### SUPPORT STAFF

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 492-5201. Due to publication lead time and the fact that positions are filled on an ongoing basis, these vacancies cannot be guaranteed beyond 7 December 1990. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.

Positions available as of

## ARTS

The following positions retain salary rates in accordance with the old classification system and pay plan.

ACCOUNTS CLERK (Part-Time/Trust), Surgical-Medical Research Institute, (\$1,006 - \$1,286 prorated)

TECHNOLOGIST I (Part-Time/Trust/Term to 31 December 1991), Zoology, (\$1,072 - \$1,383 prorated)

TECHNOLOGIST I (Trust), Anatomy and Cell Biology, (\$2,143 - \$2,765)

TECHNOLOGIST I/II (Trust), Genetics, (\$2,143 - \$3,018)

PROGRAMMER ANALYST II (Trust/Term to 31 March 1991), Computing Science, (\$2,537 - \$3,297)

TECHNOLOGIST IV (Trust), Medical Microbiology and Infectious

Until 23 February 1991

"Women Writing: Five Centuries of Verse and Prose"—an exhibition in celebration of *The Feminist Companion to Literature in English*. Hours: Monday and Friday, 8:30 am to 4:30 pm; Tuesday to Thursday, 8:30 am to 6 pm; Saturday, noon to 5 pm; Sunday, closed.

## ACTIVITIES

Jennifer Windsor, a student in the Department of Art and Design, received a second prize in the "Alberta Design Competition", sponsored by AGT and organized by the Volunteer Centre of Calgary and the Volunteer Action Centre of Edmonton. Six of the 11 finalists are students in Visual Communication Design at the University of Alberta...At the annual convention of the American Speech and Hearing Association in Seattle, 16 November, Einer Boberg (Speech Pathology and Audiology) was elected president of the newly established International Fluency Association. Dr Boberg's task will be to foster international cooperation in research, treatment and professional training through a board of directors from nine countries...Don Jorgensen has been appointed Manager, Special Funds and Research Accounting,

Office of the Comptroller, effective 17 December. A graduate of the U of A and a professional accountant, he joined the University in 1982 in the Internal Audit Department...The Bears volleyball squad leaves Christmas Day for a series of matches in Switzerland...Regula Burckhardt Qureshi (Music) presented the opening paper at a conference on "Spatial Expressions of Muslims in the West," organized by the SSRC/ACLS joint committee on the Comparative Study of Muslim Societies and hosted by the Middle East Center at Harvard University, 1 to 4 November. She also contributed a paper to a joint session on Music and Time organized by the American Musicological Society, the Society for Music Theory and the Society for Ethnomusicology at their joint annual meeting in Oakland, 7 to 11 November.

## ADS

### ACCOMMODATIONS AVAILABLE

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#### SUPPORT STAFF

To obtain further information on

**VICTORIA BOUND?** Relocating, investing. Ronn Bence, 438-1575.

Maps, listings, information. Re/Max Realty.

**SALE** - Two storey and bungalows, walking distance to University. Ron Haddad, Metro City Realty, 454-7020.

**SALE** - Two storey, Windsor Park. Architecturally remodelled and enlarged. Contemporary home, 2,800', four bedrooms, four bathrooms.

The following positions retain salary rates in accordance with the old classification system and pay plan.

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**SALE** - Lakefront, Wabamun, north shore, furnished cottage. Lot 100'x207'. Chris Tenove, 435-0808, 433-5664, Spencer Realty.

**SALE** - View property, small bungalow. Chris Tenove, 435-0808, 433-5664, Spencer Realty.

**SALE** - Residential lots; Windermera, three, one acre; Riverbend, 75'x120'. Chris Tenove, 435-0808, 433-5664, Spencer Realty.

**RENT** - Room in private home near University on Saskatchewan Drive. Mature, responsible student/staff. 488-6432, leave message.

**PROFESSIONAL WOMAN** seeking responsible female roommate to share furnished west end house. Near University. No pets. \$300/month plus utilities. Call Helen after 6:30 pm weekdays, 454-6654.

**SHARE HOUSE** - 74 Avenue 106 Street. Female, nonsmoker. Washer and dryer. Rent \$275 plus shared utilities. Available 1 January. Call Ruth at 433-2516 or 422-7333.

**RENT** - Hearthstone, Riverbend townhouse. Three bedrooms, garage. Available January. Call Denise, 435-6355 residence, 435-0808 business.

**SALE** - Bonnie Doon, by owner, new, two storey. Five bedrooms, vinyl/brick, double garage. Listed with agent 19 December. \$199,900. 9336 93 Street. Call 465-8745, 469-4119.

**HOUSE TO LEASE** - Windsor Park, 8923 120 Street. \$1,700/month. Large, fully renovated, four bedrooms, 3 1/2 bathrooms, full basement, double garage. Minimum one year. References required. Rand City Realty, Jill, 449-0795.

## SEARCH COMMITTEE FOR DEAN: FACULTY OF LAW

An Advisory Selection Committee has begun its search for a Dean of the Faculty of Law. The appointment will take effect 1 July 1991 or as soon as possible thereafter. Suggestions and comments on the leadership needs of the Faculty are invited.

Since the incumbent Dean, Professor Timothy Christian, is a candidate, the committee is also required to conduct a review of his administrative performance. Comments are invited with this stated purpose in mind.

Letters should be submitted by 31 December to: Dr J Peter Meekison, Vice-President (Academic), Third Floor, University Hall.

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### MISCELLANEOUS

**SHELTY DOG**, eight, purebred male, needs new home January 1991. Owners going on leave. 483-4649.

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